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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/886,395	06/22/2001		Christophe Dauga	P 0281180 B00/1600US	4258	
909	7590	09/26/2003				
		HROP, LLP	EXAMINER			
P.O. BOX 1 MCLEAN, V				SHAW, SHAWNA JEANNINE		
				ART UNIT	PAPER NUMBER	
				3737	10	
				DATE MAILED: 09/26/2003	7 0	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
<u>.</u>	09/886,395	DAUGA, CHRISTOPHE	
Office Action Summary	Examiner	Art Unit	
_	Shawna J. Shaw	3737	
The MAILING DATE of this communication app Period for Reply	ears on the cover shee	t with the correspondence address -	•
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing	36(a). In no event, however, ma within the statutory minimum of vill apply and will expire SIX (6) it cause the application to becom	y a reply be timely filed thirty (30) days will be considered timely. MONTHS from the mailing date of this communicate BANDONED (35 U.S.C. § 133).	ation.
earned patent term adjustment. See 37 CFR 1.704(b). Status			
1) Responsive to communication(s) filed on 03 J	l <u>uly 2003</u> .		
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.		
3) Since this application is in condition for allowa closed in accordance with the practice under			ts is
Disposition of Claims	P 4		
4) Claim(s) <u>1-12 and 15-25</u> is/are pending in the			
4a) Of the above claim(s) is/are withdraw	wn from consideration.		
5) Claim(s) is/are allowed.			•
6)⊠ Claim(s) <u>1-12 and 15-25</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o Application Papers	r election requirement.		
9) The specification is objected to by the Examine	r		,
10) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 22 June 2001 is/are: a)		cted to by the Examiner	
Applicant may not request that any objection to the			
11)☐ The proposed drawing correction filed on			
If approved, corrected drawings are required in re		,	
12) The oath or declaration is objected to by the Ex			
Priority under 35 U.S.C. §§ 119 and 120			
13)⊠ Acknowledgment is made of a claim for foreign	n priority under 35 U.S.	C. § 119(a)-(d) or (f).	
a)⊠ All b)□ Some * c)□ None of:	,		
1.⊠ Certified copies of the priority document	s have been received.		
2. Certified copies of the priority document		n Application No	
3. Copies of the certified copies of the prio application from the International Bu * See the attached detailed Office action for a list	rity documents have boreau (PCT Rule 17.2(a	een received in this National Stage	
14) Acknowledgment is made of a claim for domesti	c priority under 35 U.S	.C. § 119(e) (to a provisional applie	cation).
a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domest	ovisional application ha	s been received.	
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) 🔲 Notic	iew Summary (PTO-413) Paper No(s) e of Informal Patent Application (PTO-152) :	
S. Patent and Trademark Office			

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-12 and 15-23 have been considered but are most in view of the new ground(s) of rejection.

Claim Interpretation/Definitions

2. The examiner understands from applicants remarks filed 7/3/03 that it is conventional in the field of optics to call a first polarizing filter a "polarizer" and a second polarizing filter an "analyser." Thus, it is understood that the "polarization analyser element" is merely equivalent to a polarizing filter and does not have an associated computerized function. Furthermore, in light of this distinction, it is unclear why applicant stated in paper number 6 that the Shiratori (Asahi) reference does not disclose a polarization analyser placed in the path of a reflected light beam when in fact is does teach polarizing filter (25) placed in the path of the reflected light beam as well as means (24) for taking digital images downstream of the polarizing filter and processing unit (20).

Drawings

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the means for taking digital images placed *downstream* of the polzarization analyser element must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

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A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Objections

4. Claim 12 is objected to because of the following informalities: Claim 12 appears to be redundant to claim 11. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1-5, 9, 10, 15-20, 24 and 25 are rejected under 35 U.S.C. 102(e) as being anticipated by Shiratori et al. of record.

Shiratori et al. teach an apparatus for non-contact examination of a surface (23) including a source of polarized light (21, 22), a polarization analyser (i.e., polarization filter) (25) placed in the path of a light beam reflected by the surface, means for taking digital images (24) downstream of the polarization analyzer (see figure 2), and a processing unit, or computerized means, (20) capable of calculating the brightness and intensity of a plurality of points on the surface from pixels in the digital images (col. 7)

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line 6 and col. 8 lines 25-35). Shiratori et al. further teach wherein the light source may employ visible light or white light (col. 8 lines 7-10).

6. Claims 1-3, 5-10, 15-18 and 20-23 are rejected under 35 U.S.C. 102(e) as being anticipated by Wolff et al.

Wolff et al. teaches a non-contact apparatus for examining a surface including a source of polarized light (16 and light source) substantially the same as the solar spectrum; a polarisation analyser (24, 22) comprising a means for rotating, or electrooptic crystals, placed in the path of the reflected light; and a CCD camera (20) downstream of the polarisation analyzer for processing the brightness and intensity of the reflected light. See figure 6, col. 4 lines 44-58.

7. Claims 1-4, 9, 10, 15-19, are rejected under 35 U.S.C. 102(e) as being anticipated by Hielscher et al.

Hielscher et al. teaches a non-contact apparatus for examining a surface including a source of polarized light (12, 14); a polarisation analyzer (44) placed in the path of the reflected light; and a CCD camera (42) downstream of the polarization analyser for processing the brightness and intensity of the reflected light.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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8. Claims 4, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wolff et al.

Regarding claims 4 and 19, Wolff et al. differs from the claimed invention in that white light is not addressed explicitly, however at the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to use a white light source because Applicant has not disclosed that a white light source provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with either a light source substantially the same as the solar spectrum or a white light source because both perform the same function of enabling the surface of an object to be examined with respect to brightness and intensity.

9. Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wolff et al. in view of Doan.

Regarding claims 11 and 12, Wolff et al. differs from the claimed invention in that polychromatic digital images are not addressed. Doan provides the general teaching of obtaining polychromatic (i.e., color) images to inspect circuit boards for contamination or exposed copper surfaces (col. 3 lines 61-67). It would have been obvious at the time the invention was made to a person of ordinary skill in the art to modify Wolff et al. to obtain polychromatic digital images as taught by Doan to provide an improved means for circuit board inspection and for the determination of metal type and placement (see Wolff et al., col. 1 lines 24-29).

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10. Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hielscher et al. in view of Mersch.

Regarding claims 11 and 12, Hielscher et al. differs from the claimed invention in that polychromatic digital images are not addressed. Mersch provides the general teaching of a color CCD camera used for characterizing tissue (col. 5 lines 31-38). It would have been obvious at the time the invention was made to a person of ordinary skill in the art to modify the CCD camera of Hielscher et al. with a color CCD camera as taught by Mersch to enable better distinction between different patterns of intensity.

Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shawna J. Shaw whose telephone number is (703) 308-2985. The examiner can normally be reached on 8:00 a.m. - 4:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dennis Ruhl can be reached on (703) 308-2262. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-

0858.

Shawna J. Shaw

Primary Examiner

9/16/03